# Curriculum Vitae

# Sidney M. Hecht

# Education

B.A., Chemistry; University of Rochester
 Ph.D., Chemistry (minor: Biochemistry), University of Illinois

# **Employment**

Universit 1970	y of Wisconsin National Institutes of Health Postdoctoral Fellow
1971-75	Assistant Professor of Chemistry Associate Professor of Chemistry
University 1978-	of Virginia John W. Mallet Professor of Chemistry; Professor of Biology
Smith Klii	ne & French Laboratories

#### 1900

1981-83	Vice President, Preclinical Research & Development
1983-86	Vice President, Chemical Research & Development
1986-87	SK&F Distinguished Fellow

# Awards

1967-70	National Institutes of Health Predoctoral Fellow
1970-71	National Institutes of Health Postdoctoral Fellow
1975-79	Alfred P. Sloan Research Fellow
1975-80	National Institutes of Health Research Career Development Awardee
1977-78	John Simon Guggenheim Memorial Fellow
1996	Arthur C. Cope Scholar Award
1996	Virginia's Outstanding Scientist
1998	Research Achievement Award, American Society of Pharmacognosy

# Other Academic Appointments, Lectureships

1978	Visiting Professor, Max-Planck Institut für experimentelle Medizin, Göttingen
1979-81	Center for Advanced Studies, University of Virginia
1984	T.Y. Shen Visiting Professor, Massachusetts Institute of Technology
1985	Percy Julian Lectureship, Howard University
1991	Professeur Associé, Muséum National D'Histoire Naturelle, Paris
1991	Gastprofessor, Eidgenössische Technische Hochschule, Zurich
1991	H.C. Brown Lectureship, Purdue University
1992	Ralph Hirschmann Lectureship, Oberlin College
1993	Webster-Sibilsky Lectureship, University of Illinois at Chicago
1994	Distinguished Biochemistry Lectureship, University of Toledo
1997	Eli Lilly Lectureship, Colorado State University
1997	Nelson J. Leonard Distinguished Lectureship, University of Illinois
1997	Servier Lectureship, Université de Montréal
1999	Frontiers in Organic Chemistry Lectureship, Brigham Young University
2000	W. Allan Powell Lectureship, University of Richmond/American Chemical

	Society, Virginia Section
2000	Professeur Associé, Muséum National D'Histoire Naturelle, Paris
2000	Novum Lectureship, Karolinska Institutet, Stockholm
2001	Marcel-Piché Lectureship, Institut de Recherches Cliniques de Montréal
2001	UCLA/Isis Lectureship
2002	Western Switzerland Universities Lectureship

#### **Professional Societies**

The Chemical Society
American Chemical Society
American Society for Biochemistry and Molecular Biology
American Association for the Advancement of Science
American Society of Pharmacognosy
Sigma Xi

#### **Invited Lectures**

1984

1983 Northwestern University (Chemistry Department): Invited Lecturer University of Virginia (Biology Department): Invited Lecturer University of Virginia (Microbiology Department): Invited Lecturer University of Rochester (Chemistry Department): Invited Lecturer University of Rochester (Medical School): Invited Lecturer Gordon Research Conference on Carbohydrates: Invited Lecturer National Cancer Institute Symposium on the Discovery and Development of Naturally Occurring Antitumor Agents, Frederick, MD: Invited Lecturer National Cancer Institute Workshop on Biological Modulators, Gaithersburg, MD: Invited Lecturer University of Illinois (Chemistry Department): Invited Lecturer University of Illinois (Biochemistry Department): Invited Lecturer Beckman Instruments (Peptide Chemistry Department): Invited Lecturer University of California, Los Angeles (Chemistry Department): Invited Lecturer California Institute of Technology (Division of Chemistry and Chemical Engineering): Invited Lecturer

University of California, Davis (Chemistry Department): Invited Lecturer Baylor College of Medicine: Invited Lecturer

Centennial Symposium, School of Pharmacy, Purdue University: Invited Lecturer University of California, San Francisco (VA Hospital): Invited Lecturer Villanova University (Chemistry Department): Invited Lecturer American Chemical Society, Joint Great Lakes/Central Regional Meeting, Kalamazoo: Invited Lecturer

Gordon Research Conference on Natural Products: Invited Lecturer Annual Meeting, Plant Growth Regulator Society, Boston: Invited Lecturer 25th Annual Meeting, American Society of Pharmacognosy, Austin: Invited Lecturer

188th National American Chemical Society Meeting, Philadelphia: Invited Lecturer

Pacific Conference on Chemistry and Spectroscopy, Sacramento: Invited Lecturer Symposium on Bioorganic Chemistry, U. of Maryland: Invited Lecturer Massachusetts Institute of Technology (Chemistry Department): T.Y. Shen Visiting Professor

International Chemical Congress of Pacific Basin Societies, Honolulu: Invited Lecturer

1985	University of Mississippi (Pharmacognosy Department): Invited Lecturer Gordon Research Conference on Oxygen Radicals in Medicine and Biology: Invited Lecturer
	Howard University (Chemistry Department, Sigma Xi): Percy Julian Lectureship University of Utah (Medicinal Chemistry Department): Invited Lecturer American Chemical Society, 15th Northwestern Regional Meeting, SUNY New Paltz: Invited Lecturer
	International Research Conference on Natural Products, Chapel Hill: Plenary Lecturer
	Gordon Research Conference on Enzymes, Coenzymes and Metabolic Pathways: Invited Lecturer
	Santa Fe Graduate Medicinal Chemistry Conference: Keynote Speaker American Society for Pharmacology and Experimental Therapeutics/American Chemical Society Joint Meeting, Boston: Invited Lecturer University of Washington (Chemistry Department): Invited Lecturer
1986	
1900	State University Leiden (Chemistry Department): Invited Lecturer Université Catholique de Louvain (Chemistry Department): Invited Lecturer American Chemical Society, 191st National Meeting: Invited Lecturer University of Illinois (Chemistry Department): Invited Lecturer University of Wisconsin (Chemistry Department): American Chemical Society
	Lectureship
	Harvard University (Chemistry Department): Invited Lecturer  American Society of Biological Chemistry/American Chemical Society Joint  Meeting, Washington, DC: Invited Lecturer
	Stanford University (Chemistry Departament): Invited Lecturer Cornell University (Chemistry Department): Invited Lecturer
1987	Second International Conference on Anticarcinogenesis and Radiation Protection, Gaithersburg, MD: Invited Lecturer
	Museum National d'Histoire Naturelle: Invited Lecturer
	Institut de Chimie des Substances Naturelles: Invited Lecturer University of Massachusetts, Amherst (Polymer Science and Engineering Department): Invited Lecturer
	Hoffmann-La Roche, Nutley: Invited Lecturer
	American Chemical Society, 42nd Northwest Regional Meeting, Washington: Invited Lecturer
	Yale University (Chemistry Department): Invited Lecturer
	International Conference on Perspectives in Molecular Approaches to Human Diseases, Bari: Invited Lecturer
	Rensselaer Polytechnic Institute (Chemistry Department): Invited Lecturer Centre National de la Recherche Scientifique, Toulouse (Laboratoire de Chimie de Coordination): Invited Lecturer
	State University Leiden (Chemistry Department): Invited Lecturer Eidgenössiche Technische Hochschule, Zurich (Chemistry Department): Invited Lecturer
	Eidgenössische Technische Hochschule, Zurich (Biochemistry Department, Invited Lecturer
1988	University of Nebraska (Eppley Institute): Invited Lecturer University of Missouri (Chemistry Department): Invited Lecturer American Chemical Society, Brazosport Section: Invited Lecturer University of California, David (Chemistry Department).
	University of California, Davis (Chemistry Department): Invited Lecturer

Johns Hopkins University (Biophysics Division): Invited Lecturer 16th International IUPAC Symposium on the Chemistry of Natural Products, Kyoto: Invited Lecturer IUPAC Nagoya Symposium on New Topics in Natural Products, Toba: Plenary Lecturer Osaka University (Institute for Scientific and Industrial Research): Invited Lecturer Kyoto University Synthetic Chemistry Department): Invited Lecturer Nagova University (Molecular Biology Department): Invited Lecturer Showa University (Synthetic Chemistry Department): Invited Lecturer Tokyo Institute of Technology (Chemistry Department): Invited Lecturer Tokyo University (Pharmaceutical Sciences Department): Invited Lecturer Institute for Physical and Chemical Research, Tokyo: Invited Lecturer Gulf Coast Chemistry Conference, Pensacola: Invited Lecturer International Symposium on the Molecular Basis of Specificity of DNA-Antitumor Drug Interactions, Talloires: Invited Lecturer NIH Workshop on Bioassays for Discovery of Antitumor and Antiviral Agents from Natural Sources, Bethesda: Invited Lecturer Symposium on the Molecular Basis of Inorganic Pharmaceuticals, Northwestern University: Invited Lecturer University of Miami (Chemistry Department): Invited Lecturer Johns Hopkins University (Pharmacology Department): Invited Lecturer SUNY Binghampton (Chemistry Department): Invited Lecturer University of Nebraska (Chemistry Department): Invited Lecturer Gordon Research Conference on the Chemistry of Heterocyclic Compounds: Invited Lecturer Royal Society of Chemistry Meeting on Molecular Mechanisms in Bioorganic Processes, Newcastle upon Tyne: Invited Lecturer International Conference on Bioinorganic Chemistry, Cambridge, MA: Invited Virginia Commonwealth University (Biophysics Department): Invited Lecturer Louisiana State University (Chemistry Department): Invited Lecturer Georgia State University (Chemistry Department): Invited Lecturer Ethyl Corporation (Baton Rouge): Invited Lecturer Smith Kline & French Laboratories, King of Prussia: Invited Lecturer Lehigh University (Chemistry Department): Invited Lecturer Merck Sharp & Dohme Research Laboratories, Rahway: Invited Lecturer

1990

1989

Lehigh University (Chemistry Department): Invited Lecturer

Merck Sharp & Dohme Research Laboratories, Rahway: Invited Lecturer

Muséum National d'Histoire Naturelle: Invited Lecturer

Centre National de la Research Scientifique, Toulouse (Laboratoire de Chimie de

Coordination): Invited Lecturer

State University Leiden (Chemistry Department): Invited Lecturer Cambridge University (Chemistry Department): Invited Lecturer Technical University of Vienna (Chemistry Department): Invited Lecturer Eidgenössiche Technische Hochschule, Zurich (Chemistry Department): Invited Lecturer

Eidgenössiche Technische Hochschule, Zurich (Biochemistry Department): Invited Lecturer

Université Louis Pasteur, Strasbourg (Chemistry Department): Invited Lecturer American Chemical Society, 199th National Meeting, Boston, Symposium on Oxygen Activation in Catalysis: Oxidations with Metalloenzymes: Invited Lecturer

Roussel-Uclaf Table Ronde on Non-Porphyrinic Iron Oxidation Enzymes, Paris: Invited Lecturer

Institute of Cancer Research, Sutton; Invited Lecturer

9th International Round Table on Nucleosides, Nucleotides and their Biological Applications, Uppsala: Plenary Lecturer

University of Delaware (Chemistry Department): Invited Lecturer

North Carolina State University (Biochemistry Department): Invited Lecturer Glaxo-University of North Carolina Symposium on Nucleic Acids in Catalysis and Drug Design: Invited Lecturer

Schering Pharmaceutical Research, Berlin: Invited Lecturer

Max Planck Institut für experimentelle Medizin, Göttingen: Invited Lecturer

Consiglio Nazionale delle Ricerche, Bologna: Invited Lecturer

A. Menarini Industrie Farmaceutiche, Rome: Invited Lecturer

Walter Reed Army Institute for Research: Invited Lecturer

Colloquium on DNA Drug Targeting, Institut Gustave Roussy, Villejuif: Invited Lecturer

University of Virginia (Division of Hematology/Oncology): Invited Lecturer

Johns Hopkins University (Biochemistry Department): Invited Lecturer French-American Chemical Society, 2nd Meeting, Captiva Island, Florida: Invited Lecturer

Vanderbilt University (Center in Molecular Toxicology): Invited Lecturer Gordon Research Conference on Metals in Biology: Invited Lecturer Muséum National D'Histoire Naturelle (Chemistry and Biophysics Departments): Lecture Series

Rhône-Poulenc, Vitry: Invited Lecturer

Université Joseph Fourier, (Chemistry Department), Grenoble: Invited Lecturer Centre D'Etudes Nucleaires de Grenoble (Département de Chimie Structurale): Invited Lecturer

Université de Montpellier (Pharmaceutical Sciences Dept.): Invited Lecturer Institut de Chimie des Substances Naturelle, Gif-sur-Yvette: Invited Lecturer Centre National de la Recherche Scientifique, Toulouse (Laboratoire de Chimie de Coordination): Invited Lecturer

State University Leiden (Chemistry Department): Invited Lecturer

Centre Biophysique D'Orleans: Invited Lecturer

Purdue University (Chemistry Department): H.C. Brown Lectureship Institut de Biologie Moléculaire et Cellulaire du CNRS, Strasbourg: Invited Lecturer

Eidgenössiche Technische Hochschule, Zurich (Chemistry Department): Invited Lecturer

Ciba-Geigy, Basel: Invited Lecturer

Second Drug Discovery and Development Symposium, Grand Traverse: Invited Lecturer

University of Virginia (Biochemistry Department): Invited Lecturer North Carolina State University (Chemistry Department): Invited Lecturer Conference on Biomolecular Targeting Strategies in the Prevention and Treatment of Disease, Charlottesville: Invited Lecturer

American Chemical Society, 43rd Southeast Regional Meeting, Richmond: Invited Lecturer

Workshop on Molecular Aspects of the Sequence-Specific Binding of Metal Compounds to Nucleic Acids, Royal Netherlands Academy of Arts and Sciences, Haarlem: Invited Lecturer

1992 Wake Forest University (Chemistry Department): Invited Lecturer

Oberlin College (Chemistry Department): Ralph Hirschmann Lectureship Keystone Symposium on Molecular Biology/Metal Ion Interface, Lake Tahoe: Invited Lecturer

Virginia Polytechnic Institute (Microbiology Department): Invited Lecturer Virginia Polytechnic Institute (Chemistry Department): Invited Lecturer American Chemical Society Symposium on Natural Products, 203rd National Meeting, San Francisco: Invited Lecturer

American Chemical Society, Symposium on DNA Cleavage and Viral Inactivation, 24th Central Regional Meeting, Cincinnati: Invited Lecturer

Memorial Sloan-Kettering Cancer Center: Invited Lecturer

Symposium on Copper Coordination Chemistry: Bioinorganic Perspectives, Johns Hopkins University, Baltimore: Invited Lecturer

Carnegie Mellon University (Chemistry Department): Invited Lecturer Johns Hopkins University (Division of Toxicological Sciences): Invited Lecturer International Conference on Structures, Conformations and Interactions of Nucleic Acids, Fogarty International Center, National Institutes of Health: Invited Lecturer

Cruachem, Ltd., Glasgow: Invited Lecturer

1994

1993 American University (Chemistry Department): Invited Lecturer
Institut de Biologie Moléculaire et Cellulaire du CRNS, Strasbourg: Invited
Lecturer

National Cancer Institute (Board of Scientific Counselors): Invited Lecturer American Chemical Society Symposium on Mechanistic Bioinorganic Chemistry, 205<sup>th</sup> National Meeting, Denver: Invited Lecturer

Pennsylvania State University (Chemistry Department): Invited Lecturer University of Illinois at Chicago (School of Pharmacy): Webster-Sibilsky Lecturer

University of Illinois at Chicago (Department of Medicinal Chemistry and Pharmacognosy): Invited Lecturer

Symposium on DNA Chemistry, Vanderbilt University, Nashville: Invited Lecturer University of Minnesota (Department of Medicinal Chemistry): Invited Lecturer University of Minnesota (Department of Chemistry): Invited Lecturer Symposium on the Interfaces Between Chemistry & Biology, Marion Merrell-Dow, Cincinnati: Invited Lecturer

American Society of Pharmacognosy/Third Drug Discovery and Development Symposium, San Diego: Invited Lecturer

Bristol-Myers Squibb Pharmaceutical Research Institute, Seattle: Invited Lecturer International Conference on Bioinorganic Chemistry, San Diego: Invited Lecturer Hybridon, Worcester, MA: Invited Lecturer

New York University Medical Center (Department of Environmental Medicine): Invited Lecturer

University of Utah (Departments of Chemistry and Medicinal Chemistry): Invited Lecturer

Boston College (Department of Chemistry): Invited Lecturer University of Toledo (Department of Chemistry): Distinguished Biochemistry Lecturer

Scripps Research Institute (Department of Chemistry): Invited Lecturer University of California, Santa Cruz (Department of Chemistry and Biochemistry): Invited Lecturer

Symposium on "Topoisomerase I Inhibitors: Molecules to Medicine", 85th Annual Meeting of the American Association for Cancer Research, San Francisco: Invited Lecturer

	Merck Sharp & Dohme Research Laboratories (Biochemistry Department): Invited Lecturer American Chemical Society, North Jersey Section: Invited Lecturer Seton Hall University (Department of Chemistry): Invited Lecturer
1995	Winter Conference on Bioorganic & Medicinal Chemistry, Symposium on the Reemergence of Natural Products as a Source of New Therapeutics, Steamboat Springs, Colorado: Invited Lecturer  Georgia Institute of Technology (School of Chemistry and Biochemistry): Invited Lecturer  16th International tRNA Workshop, Madison, Wisconsin: Invited Lecturer
	American Chemical Society Symposium on Drug Targeting of RNA, 210 <sup>th</sup> National Meeting, Chicago: Invited Lecturer
	NATO Workshop on "DNA Cleavers and Chemotherapy of Cancer or Viral Diseases", Toulouse: Invited Lecturer
	Université Louis Pasteur (Institut de Biologie Moléculaire et Cellulaire de CNRS), Strasbourg: Invited Lecturer
	Stanford University (Department of Chemistry): Invited Lecturer University of Missouri (Department of Chemistry): Invited Lecturer
	University of Missouri (Department of Biochemistry): Invited Lecturer
	Université Louis Pasteur (Magistère de Chimie-Biologie), Strasbourg: Invited Lecturer
	University of Dundee (Department of Biochemistry): Invited Lecturer
1996	Ciba-Geigy (Central Research): Invited Lecturer
	University of California, Riverside (Department of Chemistry): Invited Lecturer University of California, San Diego (Department of Chemistry): Invited Lecturer
	Lecturer Lecturer
	Monroe Wall Symposium, Harvesting Biodiversity for Therapeutic Drugs and Foods, Xechem/Rutgers University, New Brunswick, NJ: Invited Lecturer
	Symposium on DNA Photonucleases, 24th American Society for Photobiology Annual Meeting, Atlanta: Invited Lecturer
	Gordon Research Conference on Natural Products Chemistry: Invited Lecturer 5th International Symposium on Progress in Natural Product Chemistry, Royal Society of Chemistry, Nottingham: Plenary Lecturer
	Matt Suffness Symposium, 37 <sup>th</sup> Annual Meeting of the American Society of Pharmacognosy, Santa Cruz: Invited Lecturer
	American Chemical Society, Symposium on Mechanisms of Metal-Mediated Biopolymer Cleavage, 212th National Meeting, Orlando: Invited Lecturer
	American Chemical Society Awards Symposium, 212 <sup>th</sup> National Meeting, Orlando: Award Address
	20th IUPAC Symposium on the Chemistry of Natural Products, Chicago: Plenary Lecturer
	Virginia Polytechnic Institute and State University (Department of Biochemistry): Invited Lecturer
1997	Workshop on Novel Biocatalysts, Instituto Juan March de Estudios e Investigaciones, Madrid: Invited Lecturer
	University of Sussex (Department of Chemistry): Invited Lecturer
	SmithKline Beecham Pharmaceuticals Research Symposium, The Many Faces of RNA, Cambridge University: Invited Lecturer
	Colorado State University (Department of Chemistry): Eli Lilly Lecturer

Distinguished Lecturer Clemson University (Department of Chemistry): Invited Lecturer 17th International tRNA Workshop, Chiba, Japan: Invited Lecturer 22nd Seminar on Frontier Technology on "Structural Biology of RNA-Protein System", Tokyo, Japan: Invited Lecturer 4th Anticancer Drug Discovery and Development Symposium, Annapolis: Invited Lecturer University of Virginia (Department of Pathology): Invited Lecturer 20th Gulf Coast Chemistry Conference, Pensacola: Invited Lecturer University of Richmond (Department of Chemistry): Invited Lecturer Louisiana State University (Department of Chemistry): Invited Lecturer Symposium on "Drug Targeting of Topoisomerases", Fifth Chemical Congress of North America, Cancun, Mexico: Invited Lecturer Université de Montréal (Departément de Chimie): Servier Lecturer McGill University (Department of Chemistry): Invited Lecturer Johns Hopkins University (Department of Pharmacology): Invited Lecturer 1998 Scripps Research Institute (Department of Chemistry): Invited Lecturer 118th Annual Meeting of the Pharmaceutical Society of Japan, Kyoto: Invited Lecturer Nippon Shinyaku Co., Ltd. (Research Laboratories): Invited Lecturer Institute of Physical and Chemical Research (RIKEN): Invited Lecturer Meiji Seika Kaisha Ltd. (Pharmaceutical Research Center): Invited Lecturer University of Tokyo (Department of Chemistry and Biotechnology): Invited Lecturer University of Iowa (Division of Medicinal and Natural Products Chemistry): Invited Lecturer RNA '98 (Third Annual Meeting of the RNA Society), Symposium on RNA Therapeutics, Madison: Invited Lecturer 39th Annual Meeting of the American Society of Pharmacognosy, Orlando: Award Address University of Mississippi, Symposium on "Topoisomerase Targeting Agents: Cancer to Chemotherapy": Invited Lecturer 25th Symposium on Nucleic Acids Chemistry, Kobe: Invited Lecturer Okayama University (Department of Bioscience & Biotechnology): Invited EMBO Workshop on Structure and Function of Aminoacyl-tRNA Synthetases, Mittelwihr: Invited Lecturer University of Tennessee (Department of Chemistry): Invited Lecturer 1999 Carnegie Mellon University (Department of Chemistry): Invited Lecturer Gordon Research Conference on Carbohydrates: Invited Lecturer University of Illinois (Department of Chemistry): Invited Lecturer AIMECS99: Asian Federation for Medicinal Chemistry International Medicinal Chemistry Symposium, Beijing: Plenary Lecturer Beijing Medical College (Division of Chemical Sciences): Invited Lecturer 22nd Gulf Coast Chemistry Conference, Pensacola: Invited Lecturer 5th Anticancer Drug Discovery and Development Symposium, Detroit: Invited Lecturer Lehigh University (Department of Chemistry): Invited Lecturer Brigham Young University (Department of Chemistry): Invited Lecturer University of Utah (Department of Chemistry): Invited Lecturer AACR-NCI-EORTC International Conference on Molecular Targets and Cancer

University of Illinois (School of Chemical Sciences): Nelson J. Leonard

	Therapeutics, Washington, DC: Plenary Lecturer  Banbury Conference on Strategies for Antibacterial Therapy, Cold Spring Harbor  Laboratory: Invited Lecturer
2000	University of Richmond (Department of Chemistry, joint with the Virginia Section of the American Chemical Society): W. Allan Powell Lecturer New York Academy of Sciences Conference on "The Camptothecins: Unfolding Their Anticancer Potential", Washington, DC: Plenary Lecturer Integrated DNA Technologies (Research Laboratories): Invited Lecturer Symposium on RNA as a Drug Target, 220th American Chemical Society National Meeting, Washington, DC: Invited Lecturer Symposium on Advances in the Chemistry of Anticancer Drug Development, British Pharmaceutical Conference, Birmingham, UK: Invited Lecturer Muséum National D'Histoire Naturelle (Departement de Biophysique): Invited Lecturer.
	Centre National de la Recherche Scientifique, Toulouse (Laboratoire de Chimie de Coordination): Invited Lecturer
	Ecole Polytechnique, Palaiseau (Groupe de Biophysique): Invited Lecturer 9th Symposium on the Latest Trends in Organic Synthesis, Gainesville: Invited Lecturer
	Karolinska Institutet, Stockholm (Chemistry Department): Novum Lecturer in Organic Chemistry Karolinska Institutet, Stockholm (Biological Chemistry Program): Guest
	Lecturer as editor of course textbooks  Université Victor Segalen, Bordeaux (Departement de Chimie Biologique):  Invited Lecturer
	Université Joseph Fourier, Grenoble (Departement de Chimie): Invited Lecturer Centre d'Etudes Nucleairs de Grenoble (Departement de Chimie Structurale): Invited Lecturer
	Muséum National D'Histoire Naturelle: Diplome d'Etudes Approfondies Lecturer Centre Oscar Lambret (Institut de Recherches sur la Cancer): Invited Lecturer Université René Descartes (Laboratoire de Chimie et Biochimie
	Pharmacologiques et Toxicologiques): Invited Lecturer
	State University Leiden (Chemistry Department): Invited Lecturer Institut de Biologie Moléculaire et Cellulaire du CNRS, Strasbourg: Invited Lecturer
	Collège de France (Section de Chimie des Intéractions Moléculaires): Invited Lecturer
2001	ISIS Pharmaceuticals: Invited Lecturer California Institute of Technology (Division of Chemistry and Chemical Engineering): Invited Lecturer
	National Cancer Institute (Screening Technologies Branch, Developmental Therapeutics Program): Drug Discovery and Development Seminar Wake Forest University, William Lown Symposium (School of Medicine): Invited Lecturer
	Aclara Biosciences (Protein Chemistry Department): Invited Lecturer Institut de Recherches Cliniques de Montréal: Marcel-Piché Lecturer ICN Pharmaceuticals (Biochemical R&D): Invited Lecturer
	ISIS Pharmaceuticals: UCLA/ISIS Lectureship UCLA (Department of Chemistry and Biochemistry): UCLA/Isis Lectureship Gordon Research Conference on Natural Products: Invited Lecturer 2nd Oxford Symposium on "Topoisomerase Targeting Agents: Chemistry to Chemotherapy: Oxford, Mississippi: Invited Lecturer

Boston College (Department of Chemistry): Invited Lecturer University of Connecticut (Department of Chemistry): Invited Lecturer Brooklyn College CUNY (Department of Chemistry): Invited Lecturer

2002 ISIS Pharmaceuticals: Invited Lecturer

Lecture tour of western Switzerland, including

Université de Genève (Département de Chimie): Invited Lecturer

École Polytechnique Fédérale de Lausanne (Département de Chimie): Invited Lecturer

University of Berne (Department of Chemistry): Invited Lecturer University of Basel (Department of Chemistry): Invited Lecturer University of Basel (Department of Biochemistry): Invited Lecturer

National Cancer Institute-Frederick (Developmental Therapeutics Program): Invited Lecturer

Institut de Chimie des Substances Naturelle, Gif-sur-Yvette: Invited Lecturer Southeastern Regional American Chemical Society Meeting, Nucleic Acids Symposium, Charleston, Invited Lecturer

14th EORTC-NCI-AACR Symposium on Molecular Targets and Cancer Therepeutics, Frankfurt: Invited Lecturer

#### **Editorial**

1986-	Editorial Advisory Board, Anti-Cancer Drug Design
1987-90	Editorial Advisory Board, Chemical Research in Toxicology
1989-95	Invited Expert Analyst, Chemtracts-Organic Chemistry
1990-91	Associate Editor, Medicinal Chemistry Research
1991-98	Editorial Advisory Board, Journal of Molecular Recognition
1992-	Editorial Advisory Board, Bioconjugate Chemistry
1992-	Associate Editor, Journal of the American Chemical Society
1993-98	Bioorganic Chemistry Series Editor, Oxford University Press
1996-97	Guest Editor, Symposium-in-Print on "Strategies for RNA Recognition",
	Bioorganic & Medicinal Chemistry
1997-99	Editorial Advisory Board, Molecules Online
2000-	Editorial Advisory Board, Current Medicinal Chemistry-Anticancer Agents

#### Committees/National Service

1978	Co-organizer (with H. Umezawa), East-West Conference on Bleomycin
1979	Organizer, Symposium on Antitumor Agents, ACS National Meeting - Houston
1981-83	Member, Bioorganic and Natural Products Study Section, National Institutes of Health
1984	Organizer, Symposium, ACS Regional Meeting - Raleigh/Durham
1985-89	Member, Walter Reed Scientific Advisory Board
1986	Ad hoc member, Chemical Pathology Study Section, National Institutes of Health
1986-90	Member, California Institute of Technology Chemistry and Chemical Engineering Division Visiting Committee
1987-91	Member, Advisory Board, Research Institute of Pharmaceutical Sciences, University of Mississippi
1988	Ad hoc member, Bioorganic and Natural Products Study Section, National Institutes of Health
1988	Ad hoc member, Metallobiochemistry Study Section, National Institutes of Health

1988-92	Chairman, Chemical Technologies Advisory Board, SmithKline Beecham
1000 11	Pharmaceuticals
1989-94 1989	Member, Board of Directors, Harbor Branch Oceanographic Institution
1989	Member, Ad Hoc Advisory Committee, Antitumor and Anti-HIV Drug Discovery
1990-00	Screening Program, Division of Cancer Treatment, National Cancer Institute Member, R&D Advisory Board, SmithKline Beecham Pharmaceuticals
1990	Organizer, Symposium on BioOrganic Chemistry, University of Virginia
	Chemistry Department
1991	Co-organizer (with C. Evans) Conference on Biomolecular Recognition and
	Targeting Strategies in the Prevention and Treatment of Disease, Charlottesville
1991-92	American Chemical Society Committee for the preparation of "Science &
1001 02	Serendipity. The Importance of Basic Research"
1992	Member, Review Panel for National Cooperative Drug Discovery Group
	Applications, National Cancer Institute
1992-93	Chairman, Review Panel for Laboratory of Medicinal Chemistry, National Cancer
1002.07	Institute  Member Scientific Advisor B. 1.C. 1. 1.1.
1992-97 1993-95	Member, Scientific Advisory Board, Cruachem, Ltd.
1775-75	Member, Board of Scientific Counselors, Division of Cancer Treatment, National Cancer Institute
1993-97	Member, Scientific Advisory Board, Magainin Pharmaceuticals
1993-97	Chairman, Discovery Advisory Board, SmithKline Beecham Pharmaceuticals
1994	Member, Review Panel for Laboratory of Molecular Pharmacology, National
1004	Cancer Institute
1994	Chairman, Department of the Army Molecular Biology Review Panel for Breast
1995	Cancer Proposals Chairman, Review Panel for Laboratory of Drug Discovery Research &
1775	Development, National Cancer Institute
1995-	Member, Board of Directors, Orchid BioSciences
1997-	Chairman, Scientific Advisory Board, Orchid BioSciences
1998-99	Member, Corporate Technology Board, SmithKline Beecham Pharmaceuticals
1998-01	Member, Board of Directors, Annovis, Inc.
1999	Chairman, Special Emphasis Review Panel, National Cancer Institute
2000- 2000-	Member, Board of Directors, Pinnacle Pharmaceuticals
2002-	Member, Scientific Advisory Board, PALUMED Chairman, Scientific Advisory Board, Galileo Laboratories
2002	Chairman, Belefitine Mavisory Board, Gaineo Laboratories
Consulting	
1979-81	Merck Sharp & Dohme Research Laboratories
1987-00	SmithKline Beecham Pharmaceuticals
1989-94	Harbor Branch Oceanographic Institution
1992-97	Cruachem, Ltd.
1993-97	Magainin Pharmaceuticals
1997-99	Orchid BioSciences
1997-01 2000-	Annovis, Inc.
2000-	Xenogen, Inc. Pinnacle Pharmaceuticals, Inc.
2000-	PALUMED
2001-	Isis Pharmaceuticals
2001-	Galileo Laboratories

# **Research Interests**

- · Synthesis and mechanism of action of bleomycin family antitumor antibiotics
- Peptidyltransferase as a source of synthetic enzymes
- Mechanism of action/inhibition of mammalian DNA topoisomerase I
- Identification of natural products having potential as antitumor agents via mechanistically focused screens

## **Research Support**

- NIH National Cooperative Natural Products Drug Discovery Grant CA50771, Mechanism-Based Discovery of Novel Antitumor Agents
- NIH Research Grant CA76297, Interaction of Bleomycin with RNA and DNA
- NIH Research Grant CA77284, Synthesis of Bleomycin Group Antibiotics and Analogues
- NIH Research Grant CA77359, Elaboration of Modified Proteins Using Misacylated tRNAs
- NIH Research Grant CA78415, Mechanism and Inhibition of Human DNA Topoisomerase I

### Research Coworkers Supervised

Ph.D., M.S. Students 49
Postdoctoral Associates, Visiting Scientists 119

## Sidney M. Hecht

#### Research Publications

- (1) D. P. Brust, D. S. Tarbell and S. M. Hecht, Studies of Cyclizations of an O-(α-Methylallyl)phenol and the Corresponding Methyl Ether Induced by Electrophilic Reagents, Proc. Natl. Acad. Sci. USA, 53, 233-236 (1965).
- (2) D. P. Brust, D. S. Tarbell, S. M. Hecht, E. C. Hayward and L. D. Colebrook, Preparation of *cis* and *trans*-2,3-Dimethyl-2,3-dihydrobenzofurans and Related Compounds. Cyclization Involving Oxonium Ions, J. Org. Chem., 31, 2192-2201 (1966).
- (3) N. J. Leonard and S. M. Hecht, 6-(-3-Methylbut-3-enylamino)purine: A Highly Active Cytokinin, J. C. S. Chem. Commun., 973 (1967).
- (4) S. M. Hecht, J. P. Helgeson and T. Fujii, N-(3-Methyl-2-butenyl)adenine, "Synthetic Procedures in Nucleic Acid Chemistry", John Wiley-Interscience Publishers, New York, 1968, p. 8-10.
- (5) N. J. Leonard, S. M. Hecht, F. Skoog and R. Y. Schmitz, Cytokinins: Synthesis of 6-(3-Methyl-3-butenylamino)-9- β-D-ribofuranosylpurine (3iPA), and the Effect of Side-Chain Unsaturation on the Biological Activity of Isopentylaminopurines and their Ribosides, Proc. Natl. Acad. Sci. USA, 59, 15-21 (1968).
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